



The Data Facility now offers GitLab, which is a GUI for managing your git repositories. This guide will explain how to set up and use the basic functionality offered by GitLab.

GitLab in the Green Environment is accessible both inside and outside of the CUSP network. To get started with GitLab, simply go to <u>https://gitlab.cusp.nyu.edu</u> and log in with your CUSP credentials.

Using GitLab

Namespaces

The projects can have two namespaces: the owner name or a group name.

For example, if my username is "USER" and I want to create a project called "TEST" my project url is https://gitlab.cusp.nyu.edu/USER/TEST or USER/TEST.

But if I have a group called "MY_GROUP", I can create a project inside this group called "TEST". This way, my project url is https://gitlab.cusp.nyu.edu/MY_GROUP/TEST or MY_GROUP/TEST.

If you want to house several dependent projects under the same namespace, create a group.

Creating a Project

1. In GitLab, go to your Dashboard and click on **New project** on the right side of your screen.



2. Fill in the required information. The first part of the project path is the namespace (individual or group) and the second is the project name. Click the **Create project** button when finished.

Flojectpath	https://stgng	g/ na319	*	/	my-aweson	ne-project
	Want to house :	several depende	ent projects under th	e same	namespace? (Create a group
nport project	O GitHub	🗑 Bitbucket	♥ GitLab.com	10	aitorious.org	G Google Code
from	🕸 Fogbugz	git Any repol	by URL			
Description (optional)						
isibility Level (?)	Private Project	access must be	granted explicitly to	o each	user.	
isibility Level (?)	 Private Project Interna The pro 	access must be I vject can be clon	granted explicitly to ned by any logged in	user.	user.	
sibility Level (?)	 Private Project Interna The pro Public The pro 	access must be l oject can be clon	granted explicitly to ned by any logged in ned without any auth	user.	user.	

Creating a Group

Your projects in GitLab can be organized in 2 different ways: under your own namespace for single projects or under groups. If you organize your projects under a group, it works like a folder. You can manage your group members' permissions and access to the projects. To create a group, do the following.

1. From the Dashboard in GitLab, click on Groups, then the New Group button in the upper-right corner.



2. Here you can add a group path (or group name), a description of the group, and an avatar if you choose. Click **Create group** when finished.

Group path	https://gitiab.com/ open-source)
Details		
Course and the	9 Choose File File name	50
Group avatar	The maximum file size allowed is 200KB. A group is a collection of several projects Groups are private by default Members of a group may only view projects they have permission to access Group project URLs are prefixed with the group namespace Existing projects may be moved into a group	
	Create group	

Working on your project

Global setup

Before you begin working, it's helpful to set your name and email address in the Git configuration settings.

```
git config --global user.name "YOUR NAME"
git config --global user.email "YOUR EMAIL@nyu.edu"
```

Clone your project

To work on a Git project you will need to clone it, which makes a local copy on the computer you are working on.

- 1. From your Dashboard in GitLab, select **Projects** and click on the project that you'd like to clone.
- 2. When you're in the project, select HTTPS and copy the provided link.



3. Open a Terminal window and enter the following command. You will need to enter your CUSP password whenever you clone, push, or pull the repo.

git clone <PASTE SSH HERE>

Committing and pushing

The following commands demonstrate how to move to your local repository, create a file, then add, commit, and push a change.

cd <REPOSITORY NAME>
echo "Hello World!" > README.md
git add README.md
git commit -m "add README"
git push -u origin master

Managing Project Members

You can manage the groups and users and their access levels on all of your projects. You can also personalize the access level you give each user on each project.

You should have master or owner permissions to add or import a new user to your project. The first step to add or import a user, go to your project and click on **Members** on the left side of your screen.



Add a user

1. Next to People, start typing the name or username of the user you want to add. If you can't find a user here, this user has likely never logged into GitLab before. Ask this user to log into GitLab before you try to add them as a member.

Add new user to project	
Users with access to this pr	oject are listed below.
People	lar
Project Access	Aiden Volkman larue

2. Select the user and the permission level that you'd like to give the user. Note that you can select more than one user.

There are 5 permission levels: Guest, Reporter, Developer, Master and Owner. Guest can only create comments and issues. Reporter has read permission (can pull from the remote repository). Developer has the write permission (can push into the repository). Master can manage the project and Owner can do everything. For more details, read this page on <u>permission levels</u>.

Add new user to project	
Users with access to this proj	ect are listed below.
People	× Aiden Volkman × Dee Schuppe
	Search for existing users or invite new ones using their email address.
Project Access	Guest
Add users to project	Guest
	Reporter
test project members (0)	Developer
	Master

3. Once done, click **Add users to project** and they will be immediately added to your project with the permissions you gave them above. From there on, you can either remove an existing user or change their access level to the project.

Add users to project	
test project members (2)	Find existing member by
Dee Schuppe zoe.halvorson	Reporter 🕼 📒
Aiden Volkman larue	Reporter 🗷 📒

Import users from another project

You can import another project's users in your own project by clicking the **Import members** button in the upper-right corner of the **Members** menu.

1. In the dropdown menu, you can the projects you are Master on.

Import members from another project			
Project	Select project		
Import project members			
	Select project		
	axil / test		
	axil / do		
	Gitlab Org / Gitlab Ci		

2. Select the one you want and click **Import project members**. A flash message notifying you that the import was successful will appear, and the new members are now in the project's members list. Notice that the permissions that they had on the project you imported from are retained.

test project members (5)	Find existing member by
Administrator root	Guest 🧭 🗕
Wrs. Morris Zboncak dominic_welch	Master 🧭 🗕
Priscilla Reichert daisy	Master 🗷 🗕
U Eloisa Lang roel	Developer 🗷 🗕
axil axil (t's you)	Master